

## **Classroom-Ready Activity Section**

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During the next month or so, please consider submitting your favorite activity for the Autumn 2007 *Ohio Journal*. We are looking for activities that help students understand the mathematics being taught. Usually, this implies conceptual understanding. Another option is an activity that involves using technology to teach mathematical ideas or skills. An activity that demonstrates the integration of hand-held technology and mathematics would also be considered. The activities should not be taken from a textbook or the Internet.

The activities that follow include:

### **Discovering the Area of a Circle: Egyptian Style**

**Gail Kaplan**, Towson University

The activity is connected to the article by the same name – see page 33.

### **Average Rate of Change**

**Ed Laughbaum**, The Ohio State University

This activity is based on guided discovery. Students must look for patterns developing in the questions asked. The developed pattern leads to the generalization that the average rate can be calculated by  $\frac{\Delta y}{\Delta x}$ , or by  $\frac{\Delta \text{dependent variable}}{\Delta \text{independent variable}}$ . The activity may be the initial introduction to the concept, or it may be used in conjunction with other average-rate-of-change activities.

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